This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

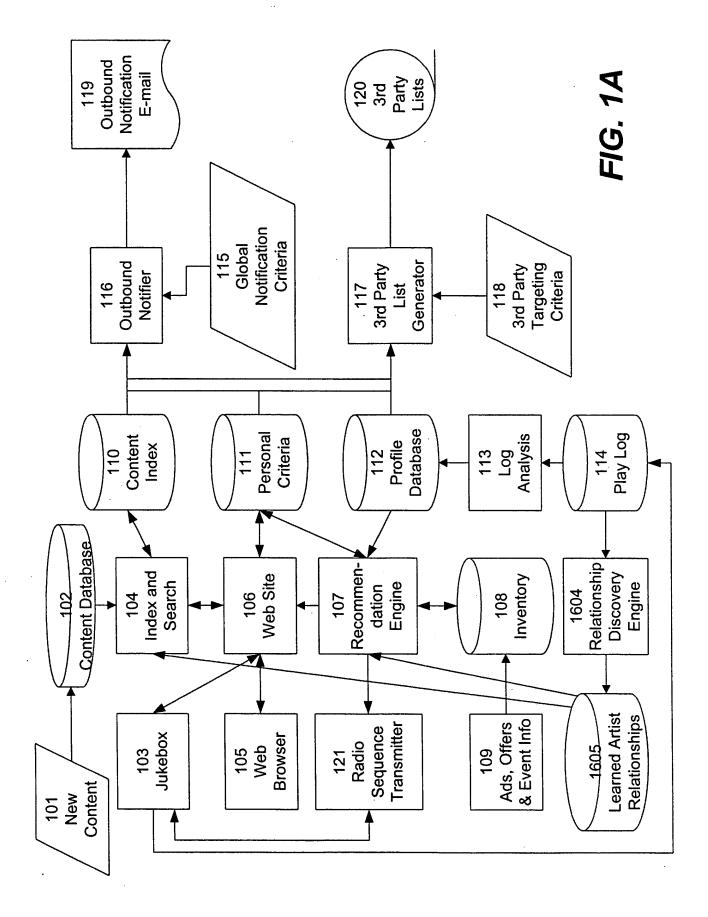
Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problems Mailbox.

Sheet 1 of 52
Title: Relationship Discovery Engine
Inventors: Ted E. Dunning
and Bradley Kindig
Atty. Docket No.: 22227-04647



Sheet 2 of 52

Title: Relationship Discovery Engine

Inventors: Ted E. Dunning

and Bradley Kindig Atty. Docket No.: 22227-04647

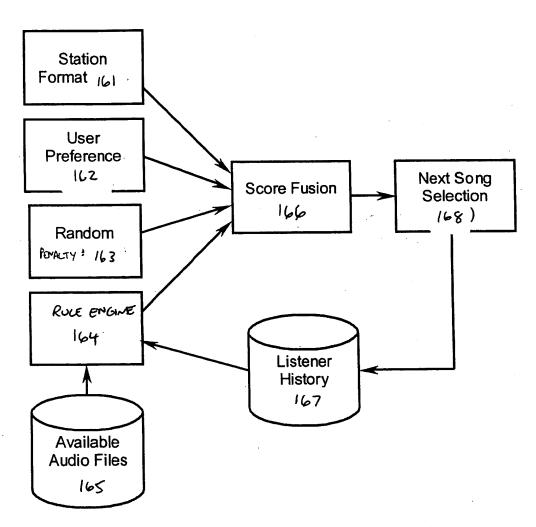


FIG. 1B

Sheet 3 of 52

Title: Relationship Discovery Engine

Inventors: Ted E. Dunning

and Bradley Kindig

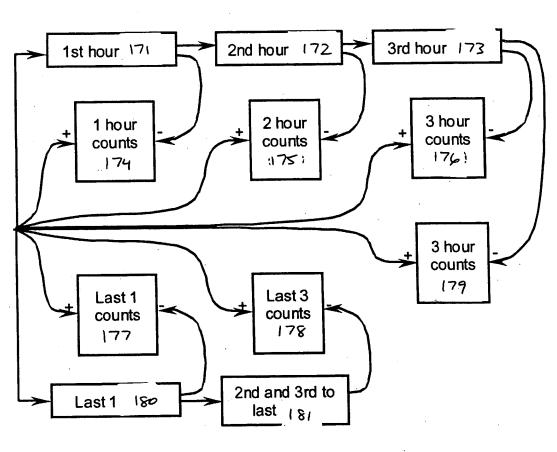
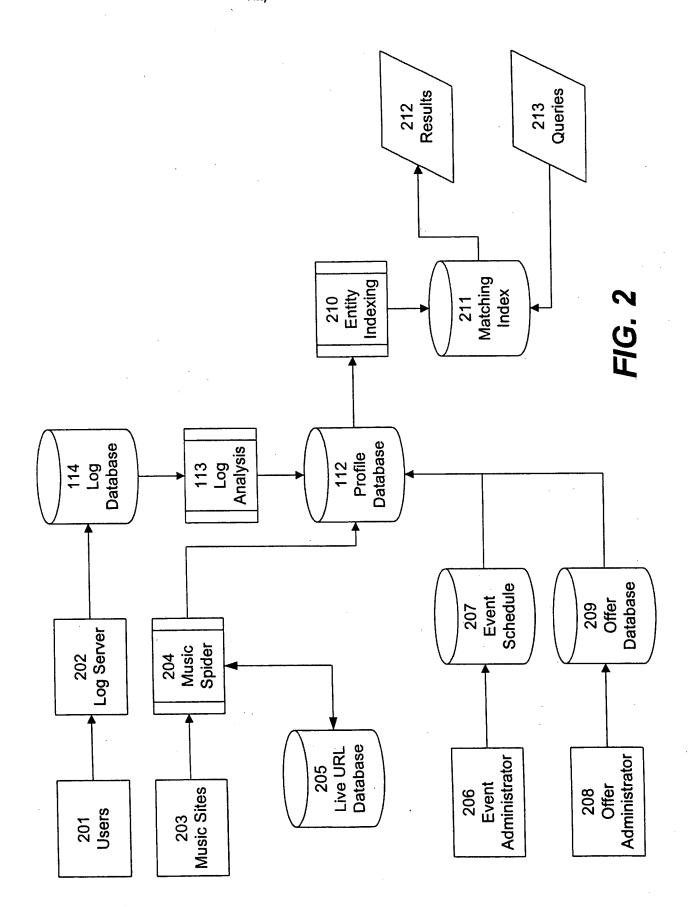
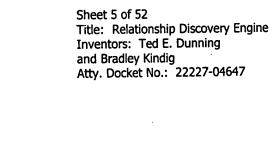
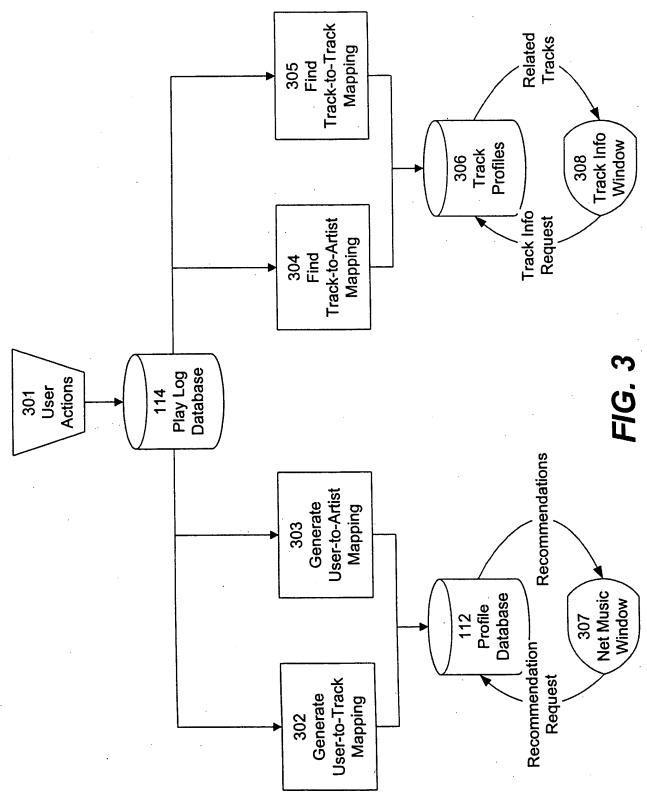


FIG. 1C

Sheet 4 of 52 Title: Relationship Discovery Eng Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647









Sheet 6 of 52

Title: Relationship Discovery Engine

Inventors: Ted E. Dunning

and Bradley Kindig

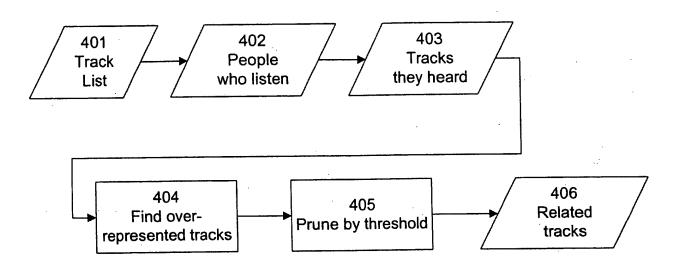


FIG. 4

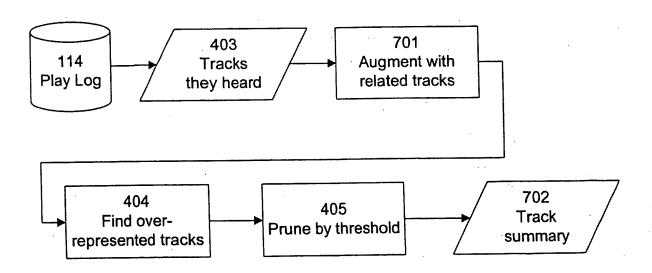


FIG. 7

Sheet 7 of 52

Title: Relationship Discovery Engine

Inventors: Ted E. Dunning

and Bradley Kindig

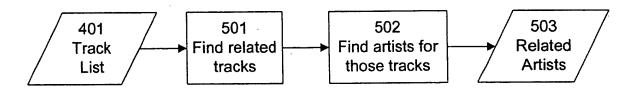


FIG. 5

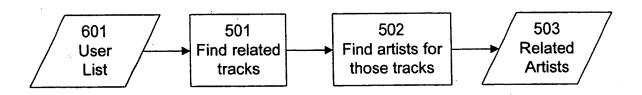
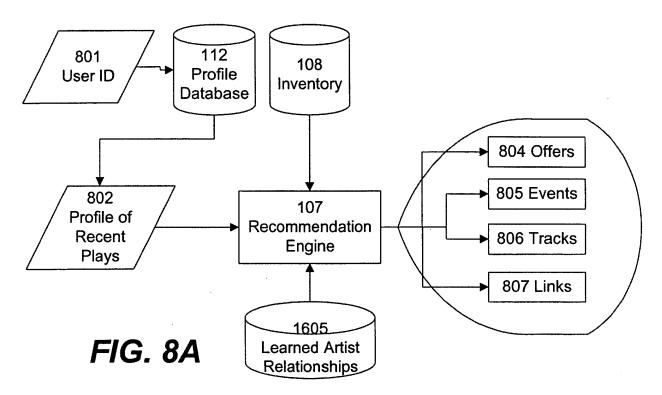


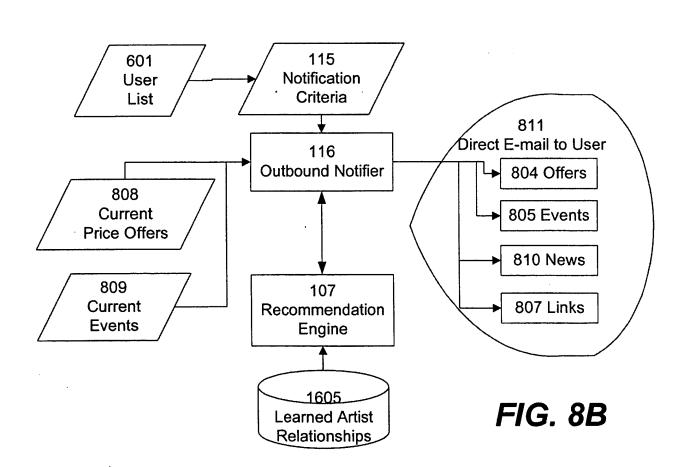
FIG. 6

Sheet 8 of 52

Title: Relationship Discovery Engine

Inventors: Ted E. Dunning and Bradley Kindig



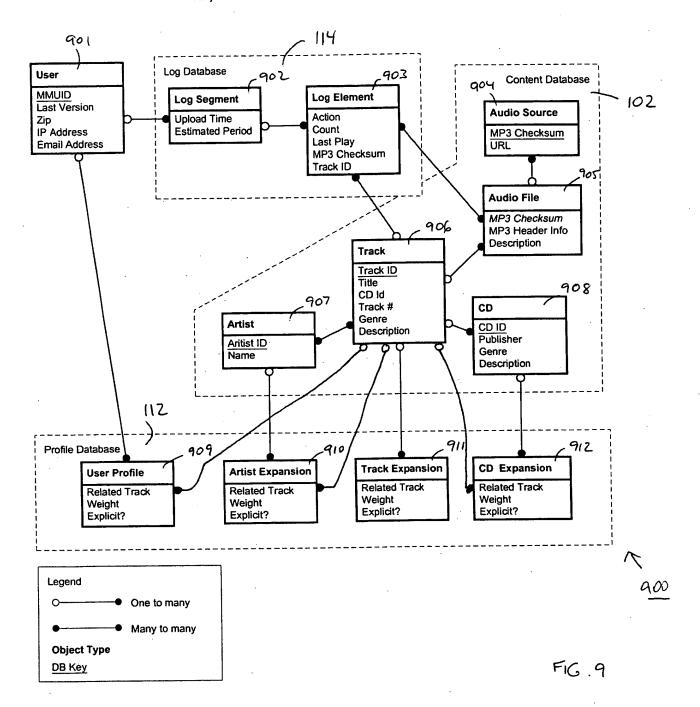


Sheet 9 of 52

Title: Relationship Discovery Engine

Inventors: Ted E. Dunning

and Bradley Kindig



Sheet 10 of 52

Title: Relationship Discovery Engine

Inventors: Ted E. Dunning

and Bradley Kindig

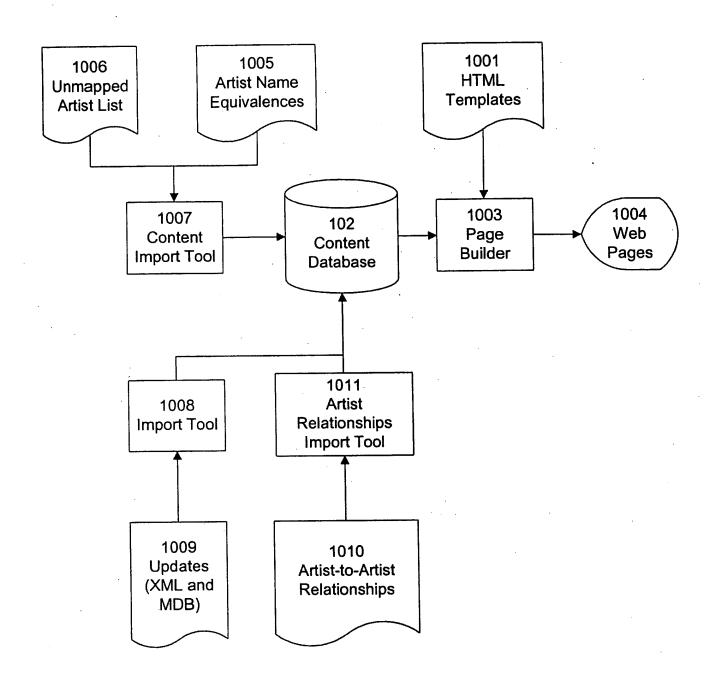


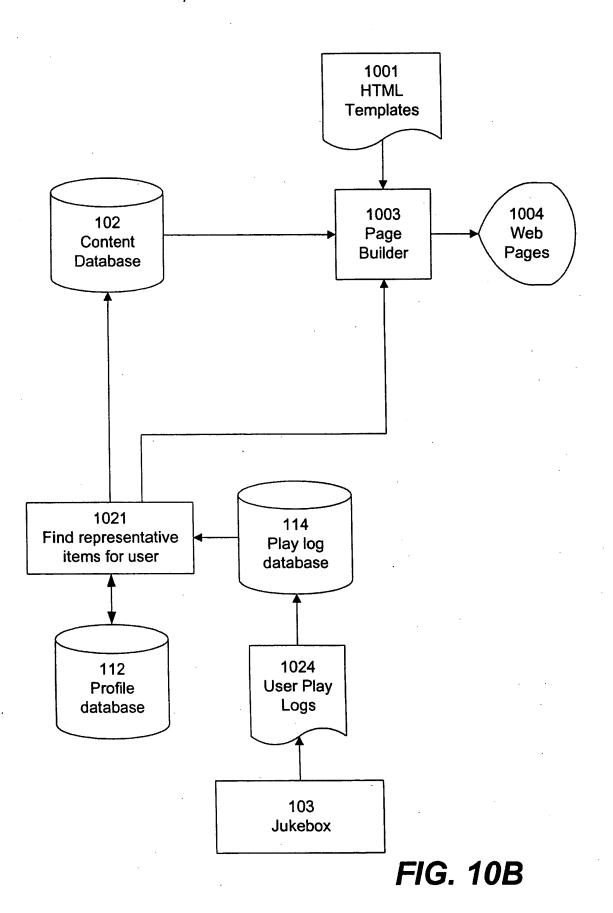
FIG. 10A

Sheet 11 of 52

Title: Relationship Discovery Engine

Inventors: Ted E. Dunning

and Bradley Kindig



Sheet 12 of 52

Title: Relationship Discovery Engine

Inventors: Ted E. Dunning

and Bradley Kindig

Atty. Docket No.: 22227-04647

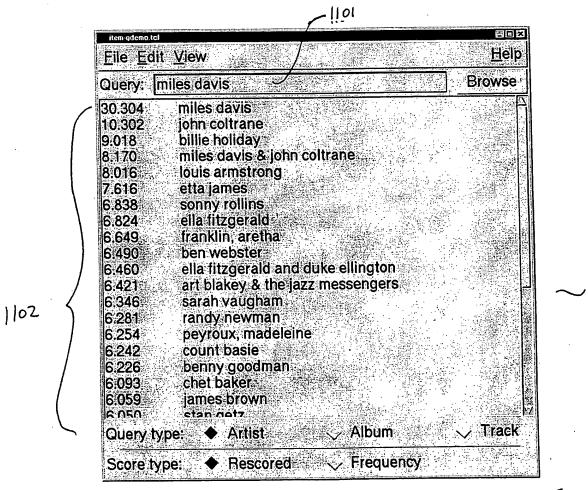
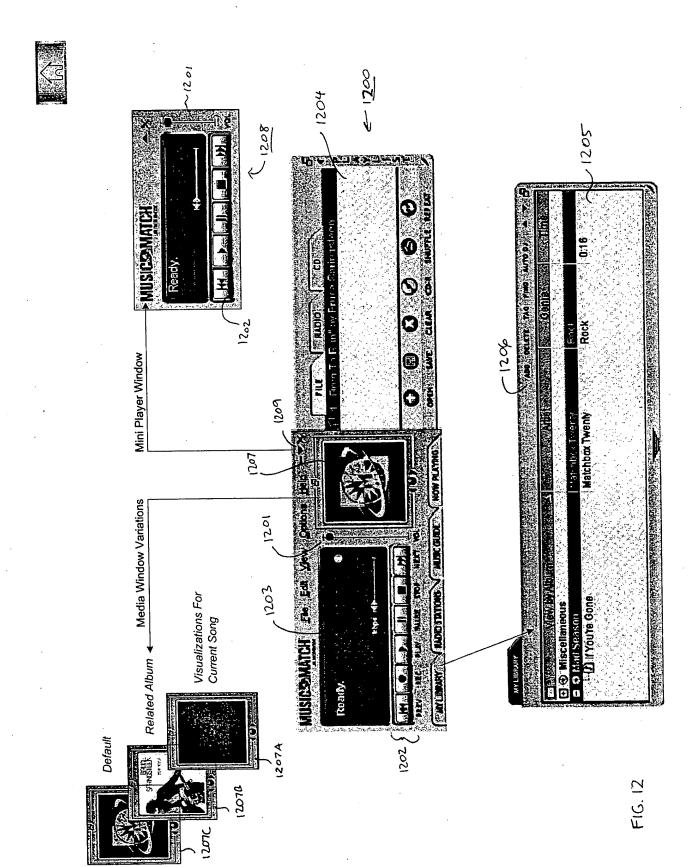


FIG. 11

1100

Sheet 13 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647



Sheet 14 of 52

Title: Relationship Discovery Engine

Inventors: Ted E. Dunning

and Bradley Kindig

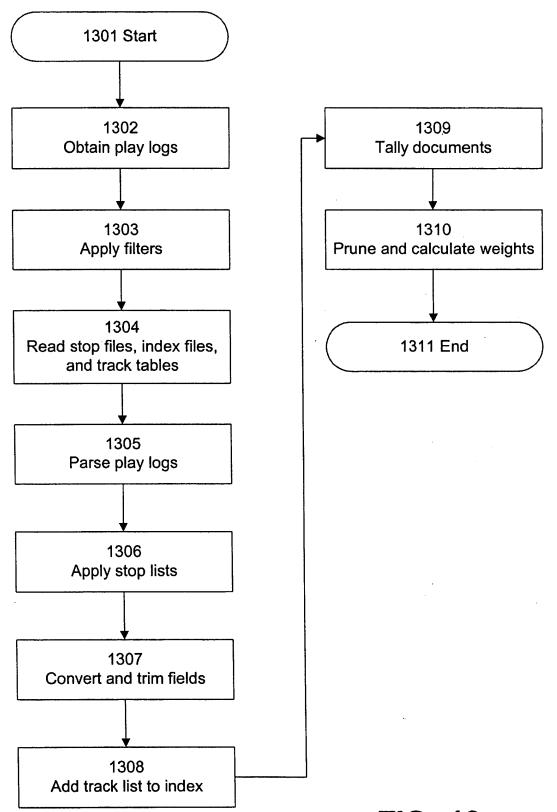


FIG. 13

Sheet 15 of 52

Title: Relationship Discovery Engine

Inventors: Ted E. Dunning

and Bradley Kindig

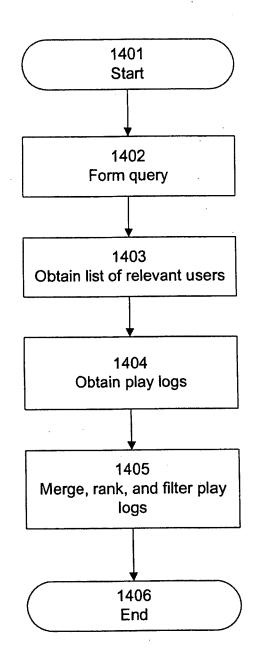


FIG. 14

Sheet 16 of 52

Title: Relationship Discovery Engine

Inventors: Ted E. Dunning

and Bradley Kindig

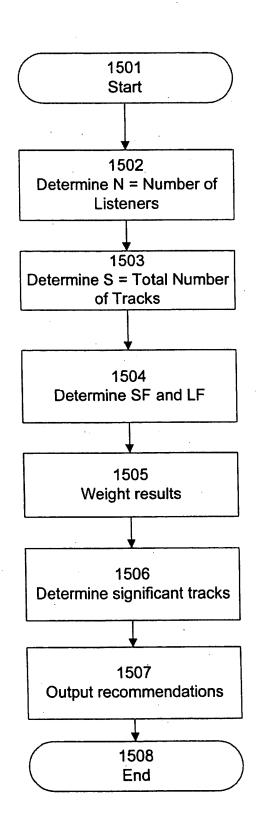


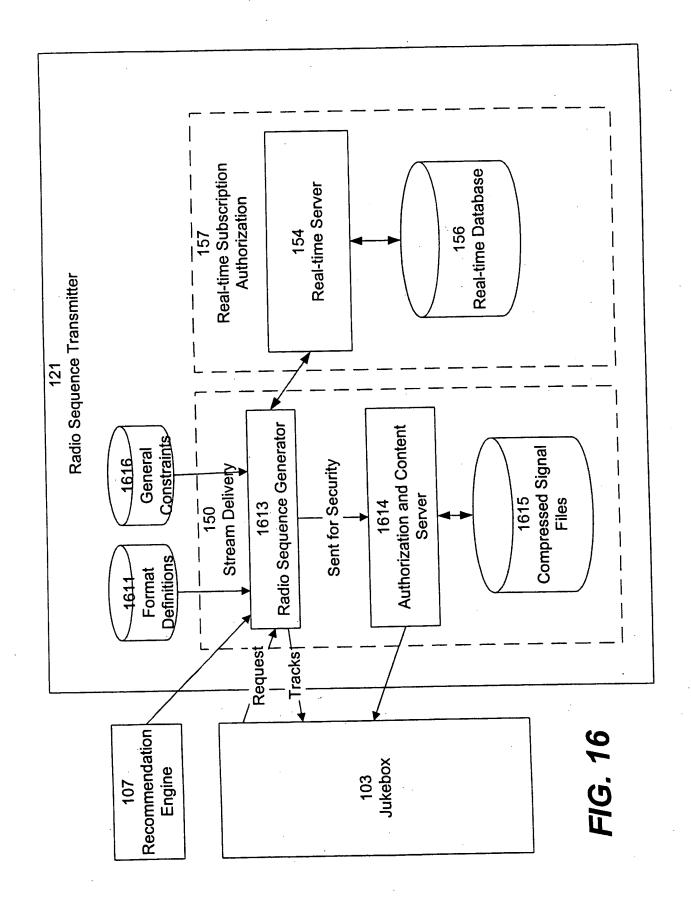
FIG. 15

Sheet 17 of 52

Title: Relationship Discovery Engine

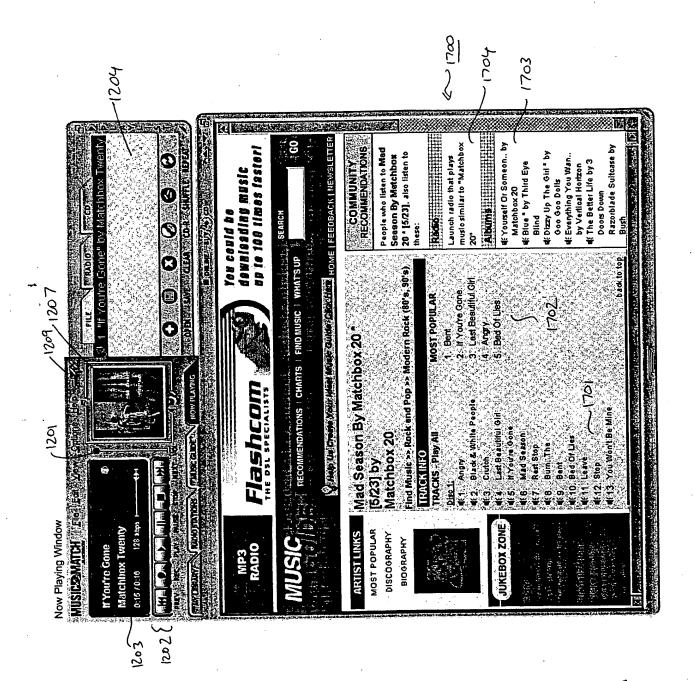
Inventors: Ted E. Dunning

and Bradley Kindig Atty. Docket No.: 22227-04647



Sheet 18 of 52 Title: Relationship Discovery Engine

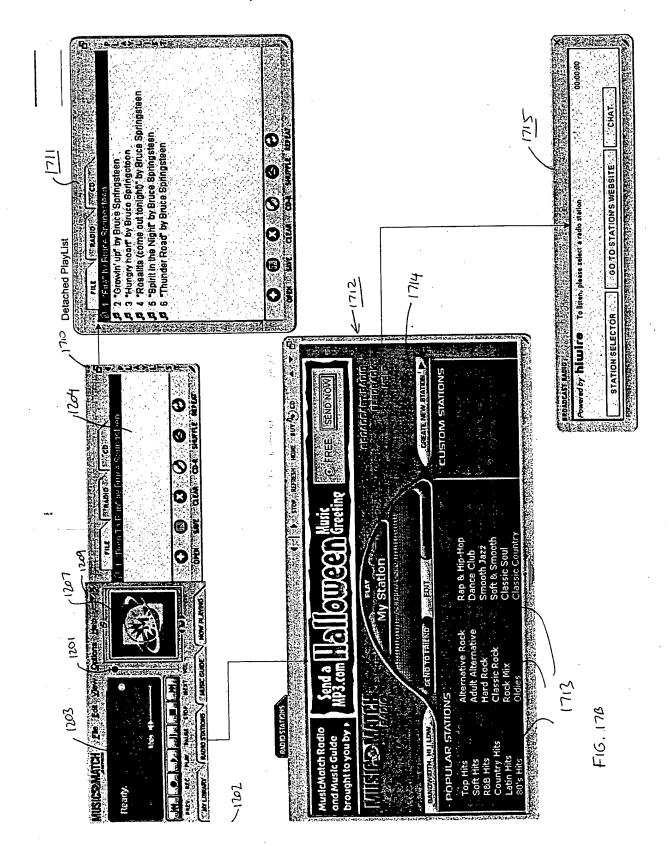
Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647



Sheet 19 of 52

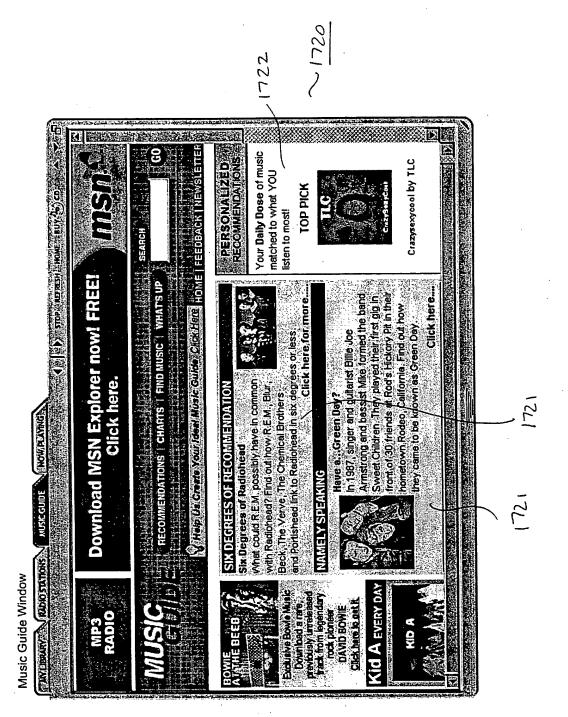
Title: Relationship Discovery Engine Inventors: Ted E. Dunning

and Bradley Kindig

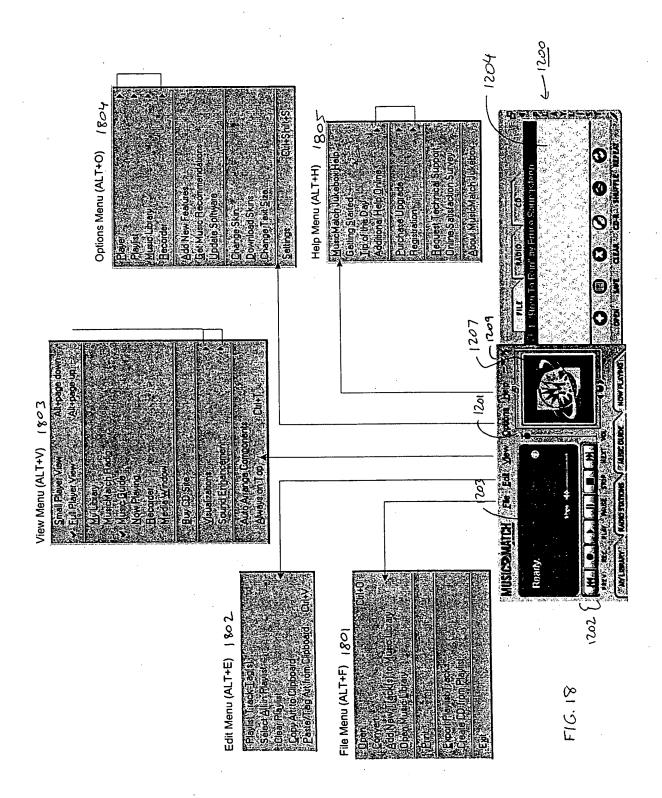


Sheet 20 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning

and Bradley Kindig Atty. Docket No.: 22227-04647

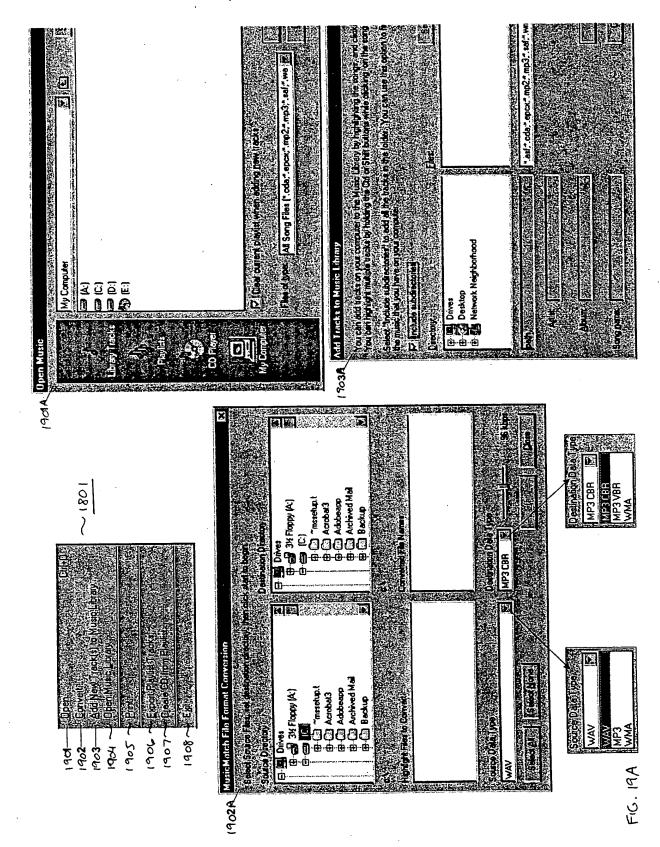


Sheet 21 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647



Sheet 22 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning

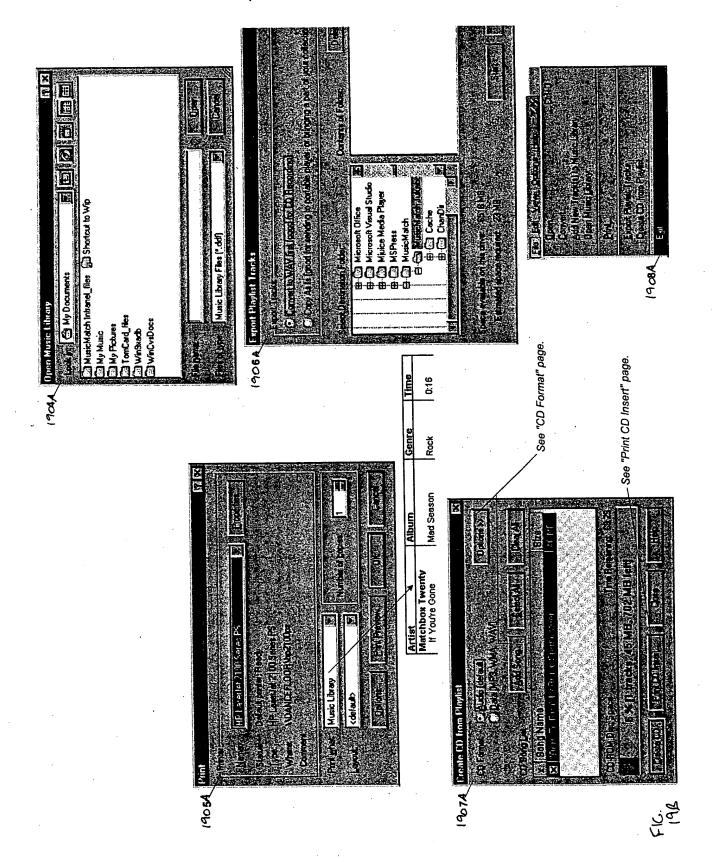
and Bradley Kindig
Atty. Docket No.: 22227-04647



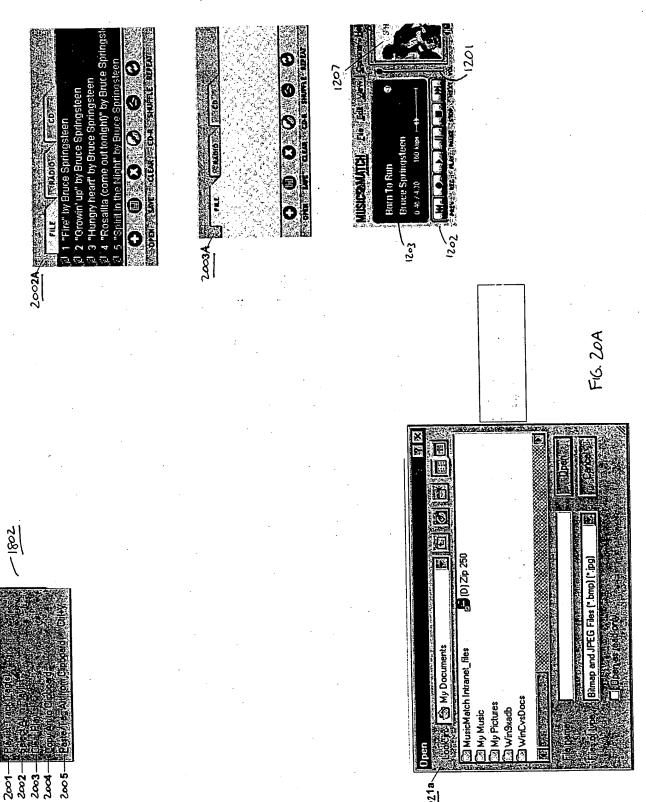
Sheet 23 of 52

Title: Relationship Discovery Engine Inventors: Ted E. Dunning

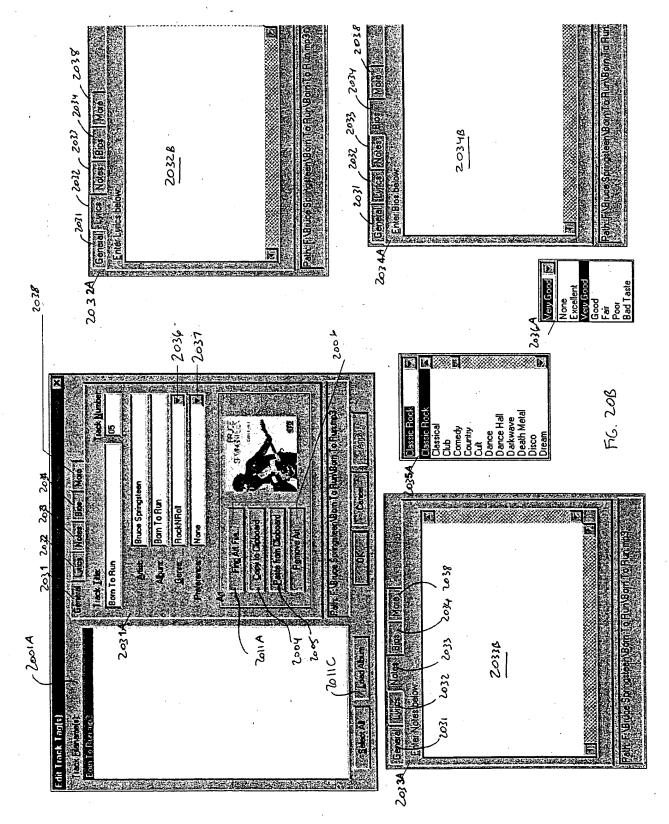
and Bradley Kindig Atty. Docket No.: 22227-04647



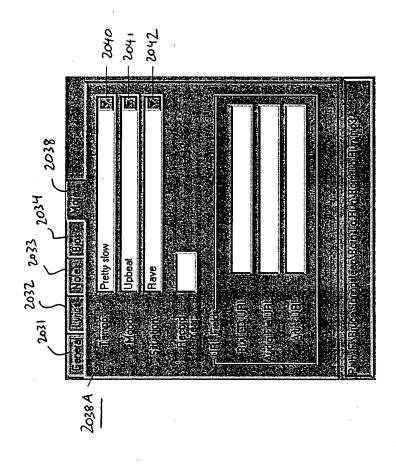
Sheet 24 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647

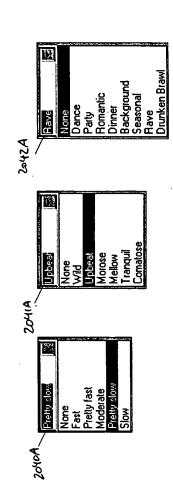


Sheet 25 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647

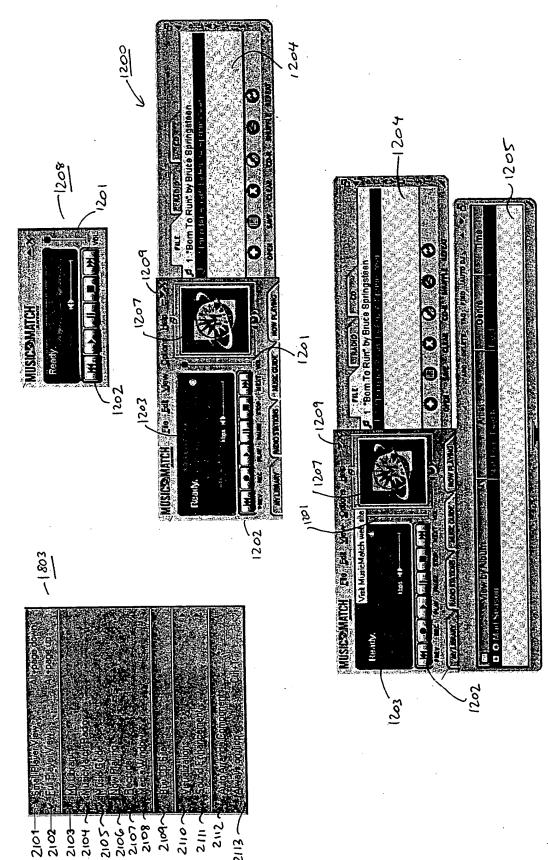


Sheet 26 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647





Sheet 27 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647

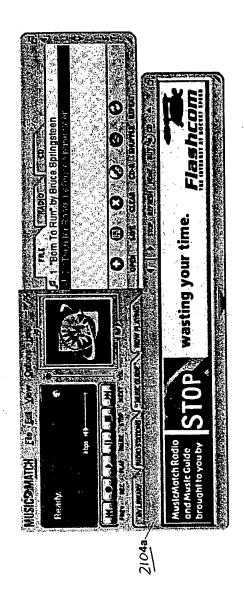


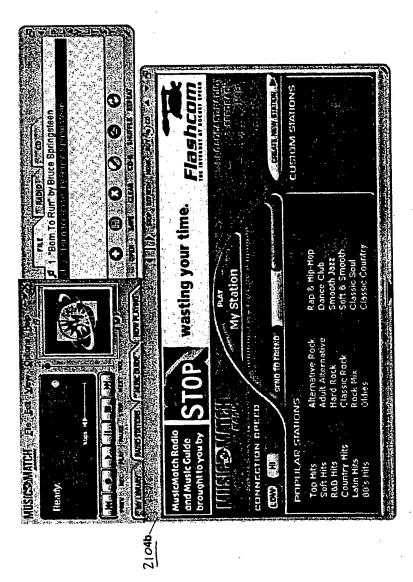
Sheet 28 of 52

Title: Relationship Discovery Engine

Inventors: Ted E. Dunning

and Bradley Kindig



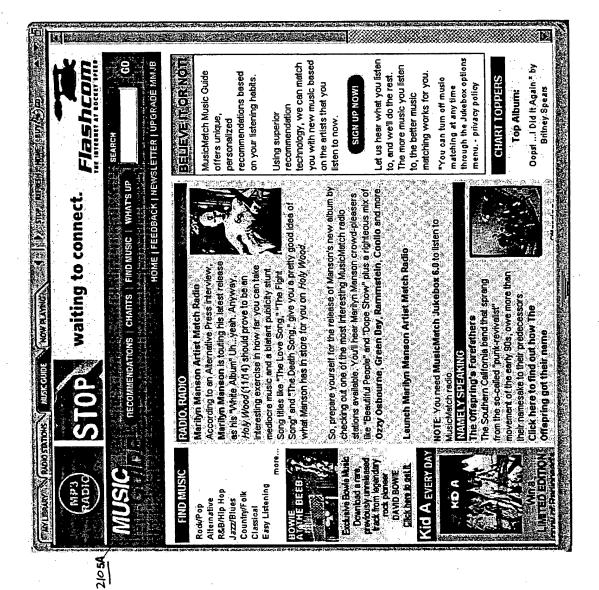


Sheet 29 of 52

Title: Relationship Discovery Engine

Inventors: Ted E. Dunning

and Bradley Kindig

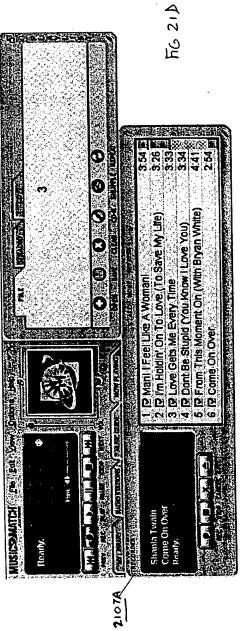


Sheet 30 of 52

Title: Relationship Discovery Engine Inventors: Ted E. Dunning

and Bradley Kindig



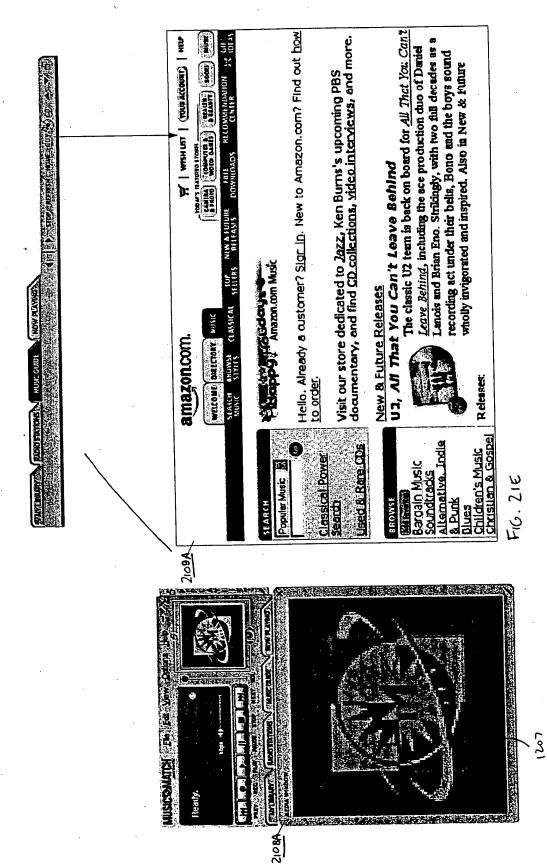


Sheet 31 of 52

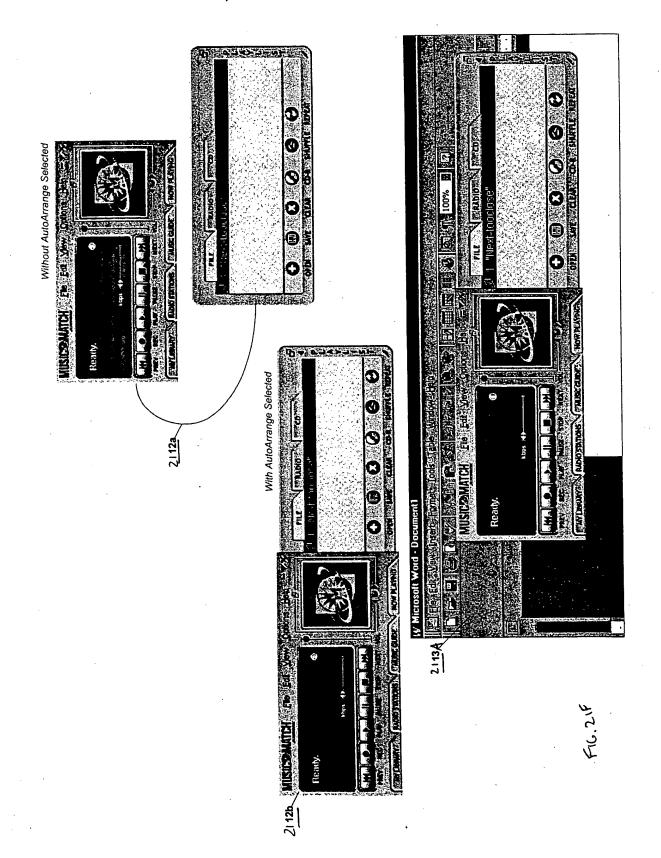
Title: Relationship Discovery Engine

Inventors: Ted E. Dunning

and Bradley Kindig



Sheet 32 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647



2202

2201-

2204-

22.08

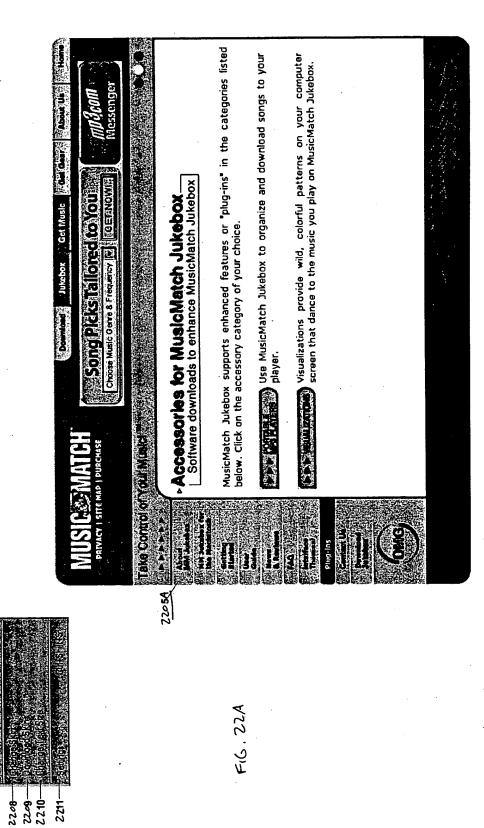
-1022

22.05

Sheet 33 of 52

Title: Relationship Discovery Engine Inventors: Ted E. Dunning

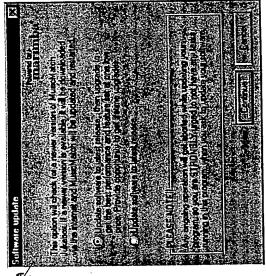
and Bradley Kindig



Sheet 34 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning

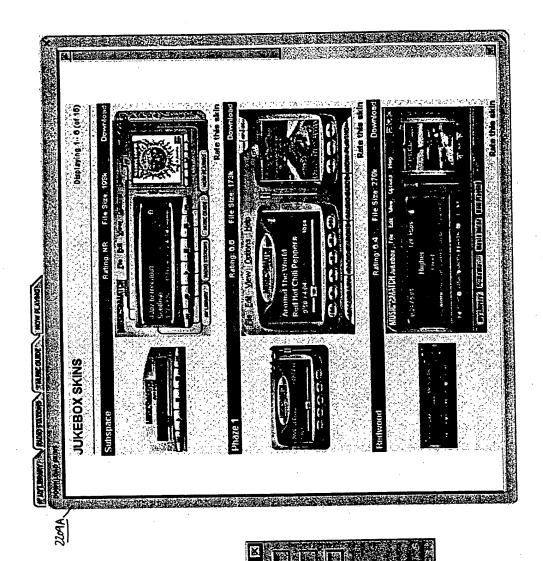
and Bradley Kindig

Atty. Docket No.: 22227-04647

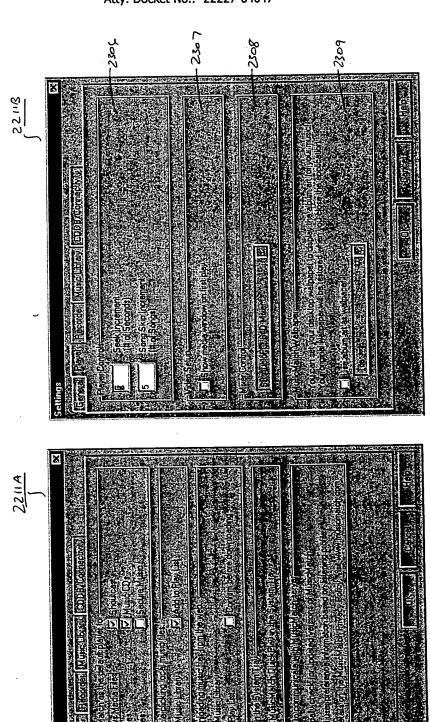


Mbum Title (optional) **PERSONALIZED**

Sheet 35 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647

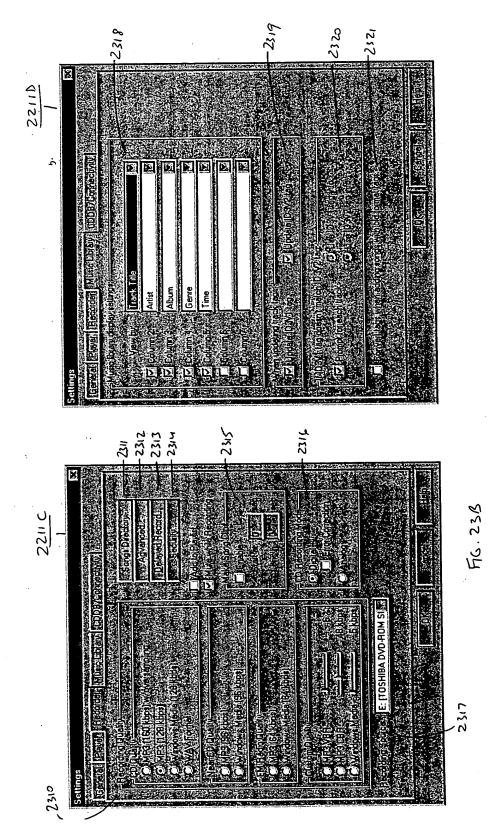


Sheet 36 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647

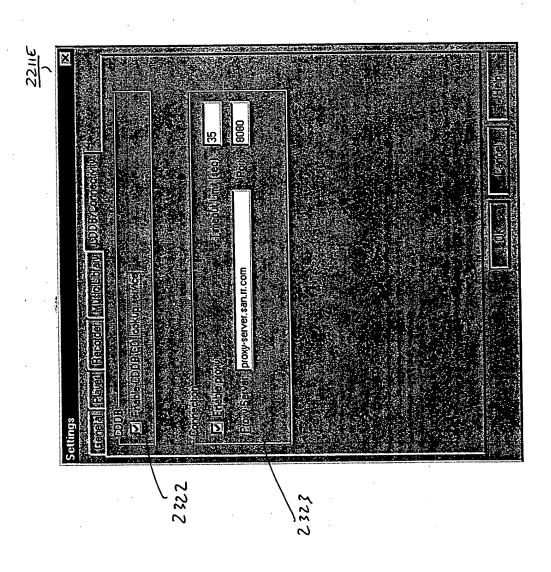


5082

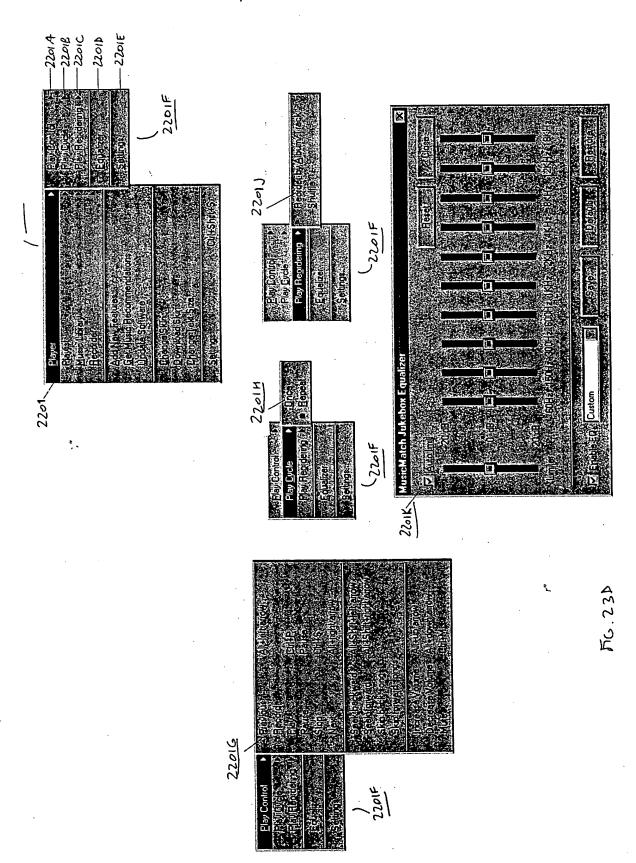
Sheet 37 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647



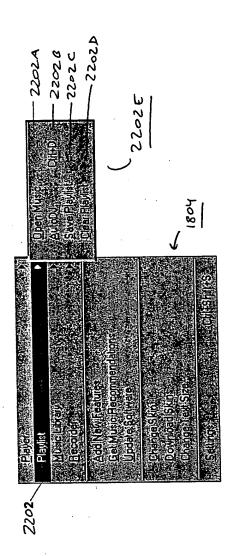
Sheet 38 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647

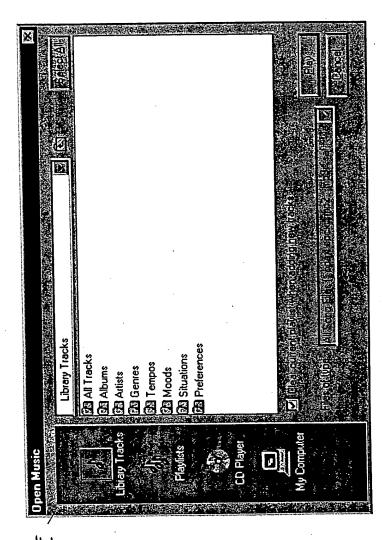


Sheet 39 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647



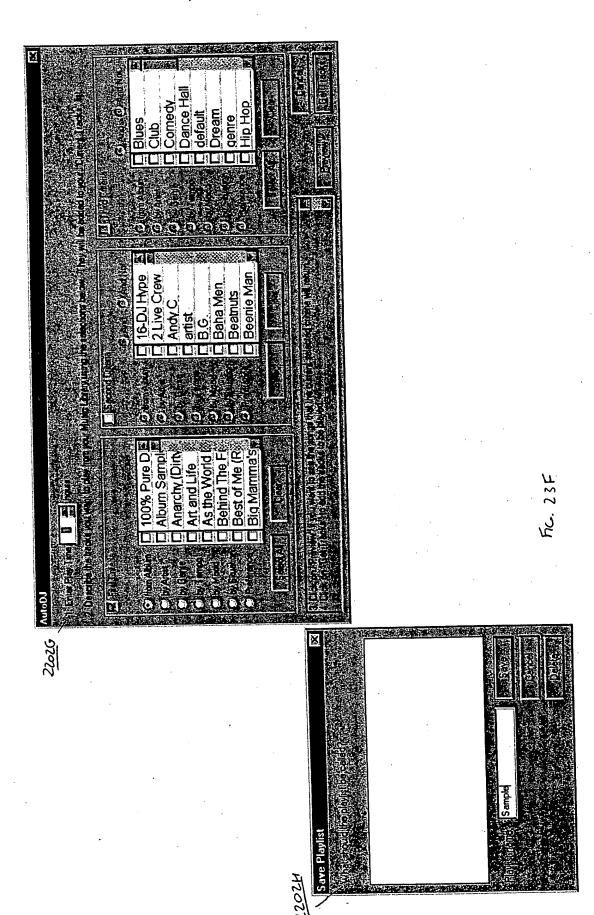
Sheet 40 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647





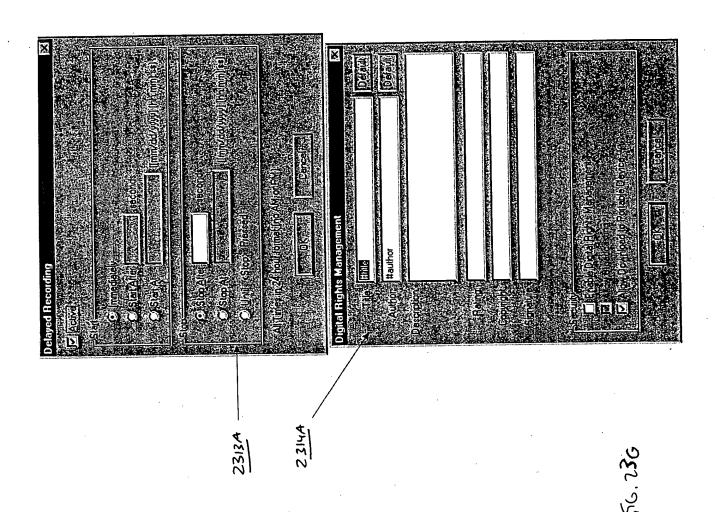
Sheet 41 of 52

Title: Relationship Discovery Engine
Inventors: Ted E. Dunning
and Bradley Kindig
Atty. Docket No.: 22227-04647

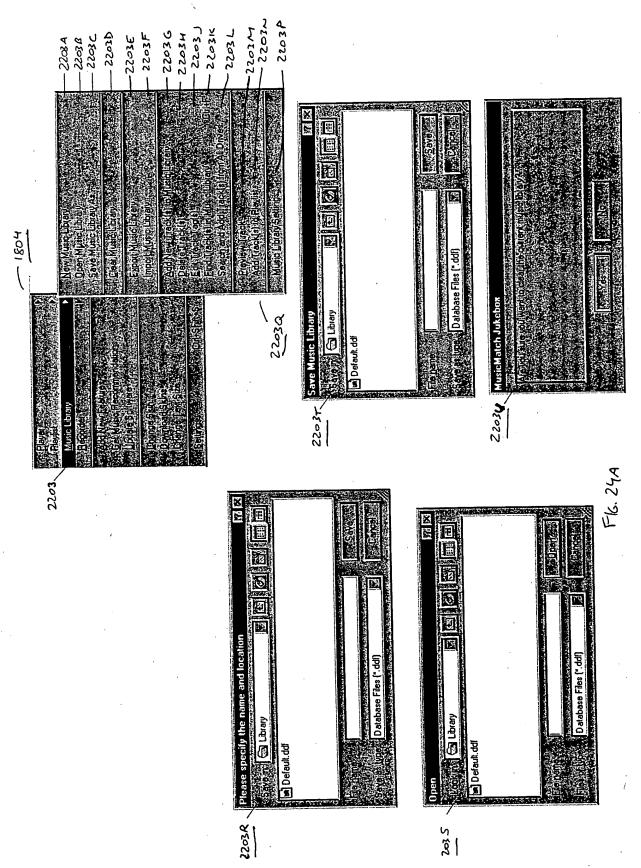




Sheet 42 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647



Sheet 43 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647



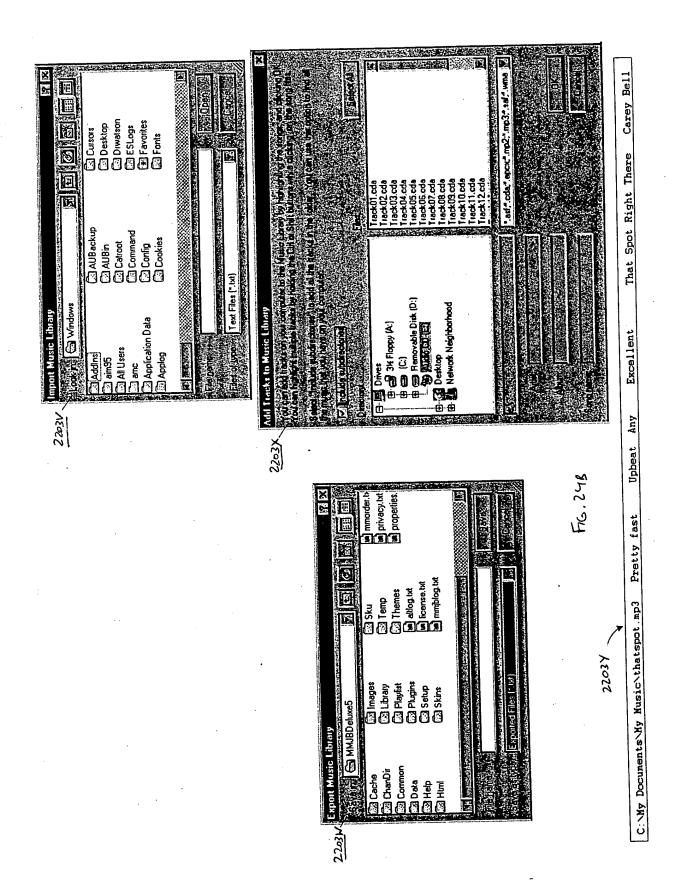
Sheet 44 of 52

Title: Relationship Discovery Engine

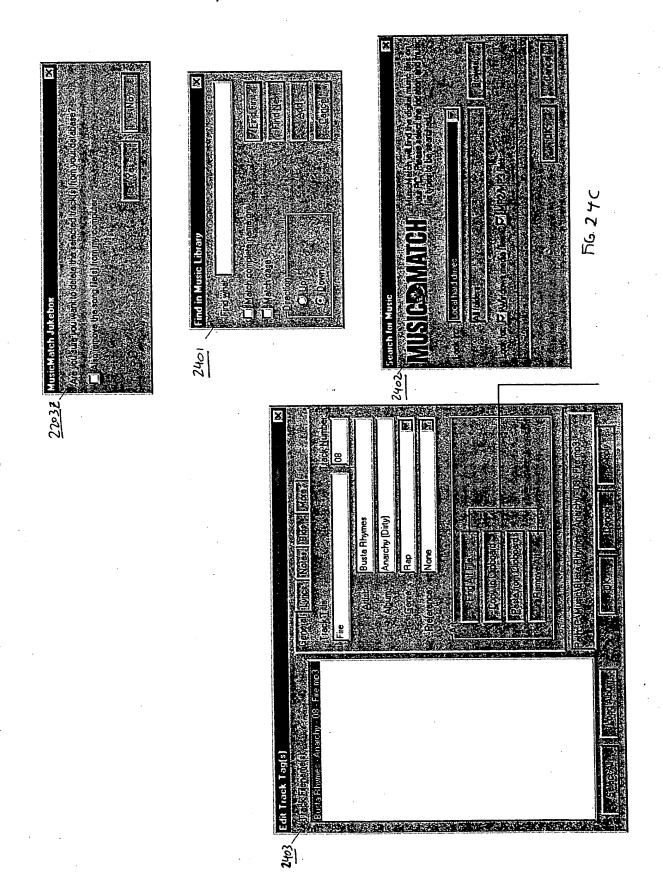
Inventors: Ted E. Dunning

and Bradley Kindig

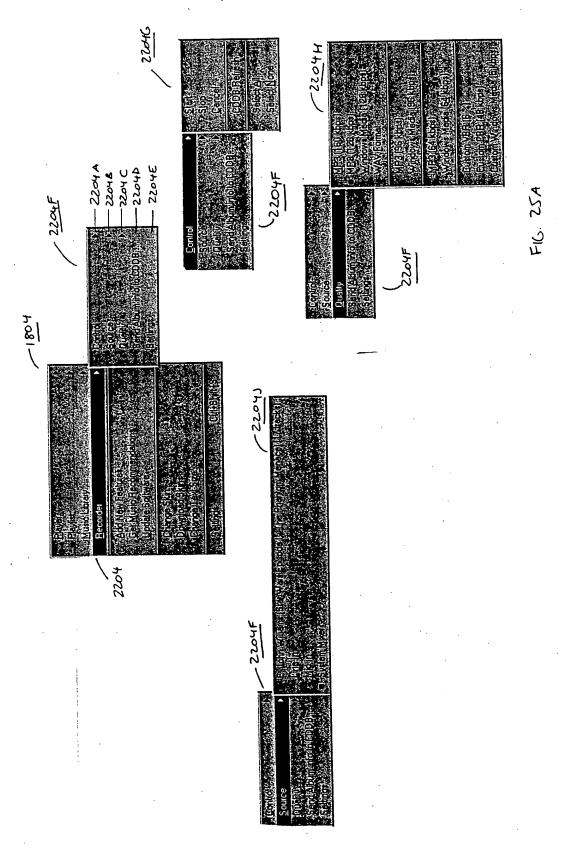
Atty. Docket No.: 22227-04647



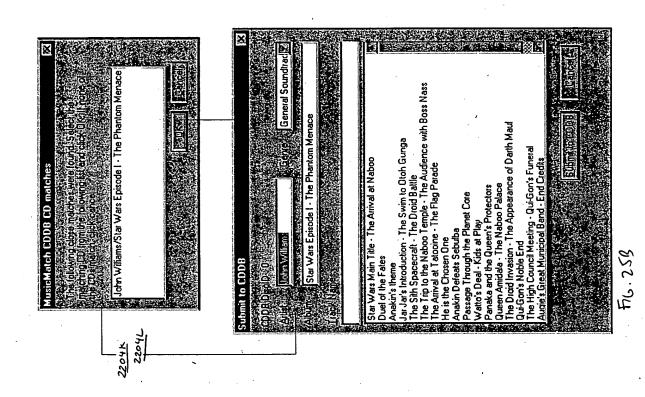
Sheet 45 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647



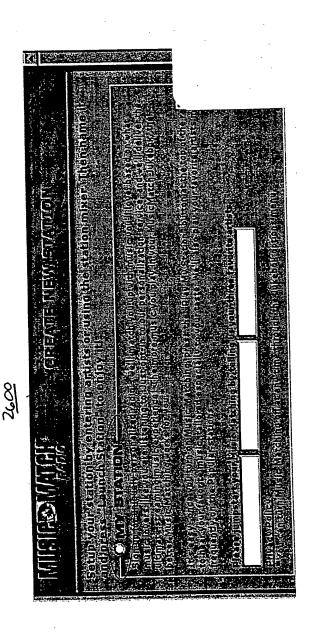
Sheet 46 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647



Sheet 47 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647

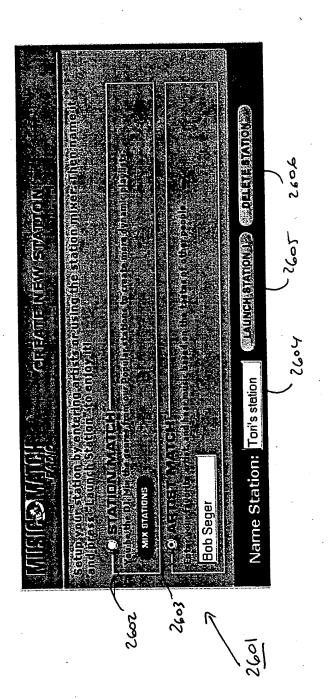


Sheet 48 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647





Sheet 49 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647

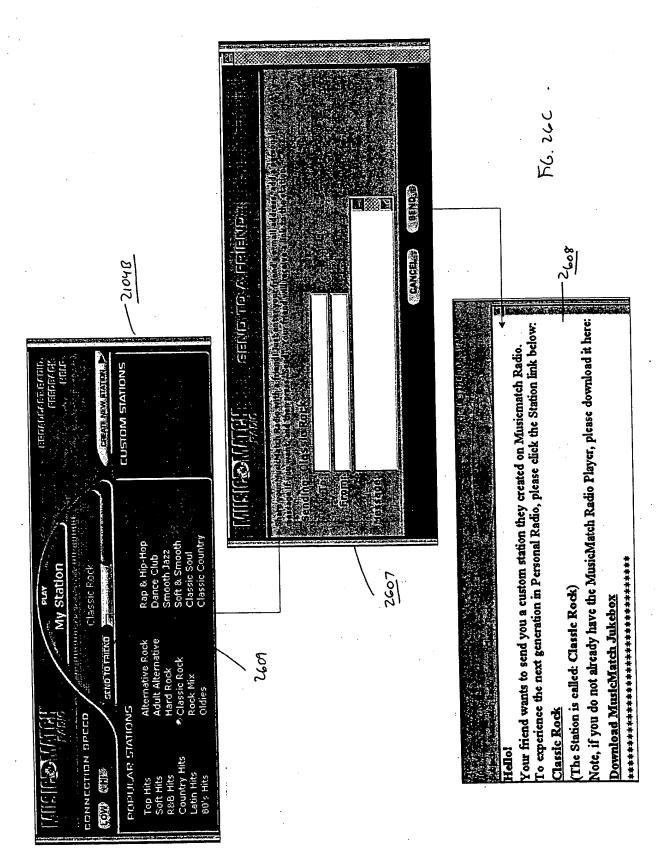




Sheet 50 of 52

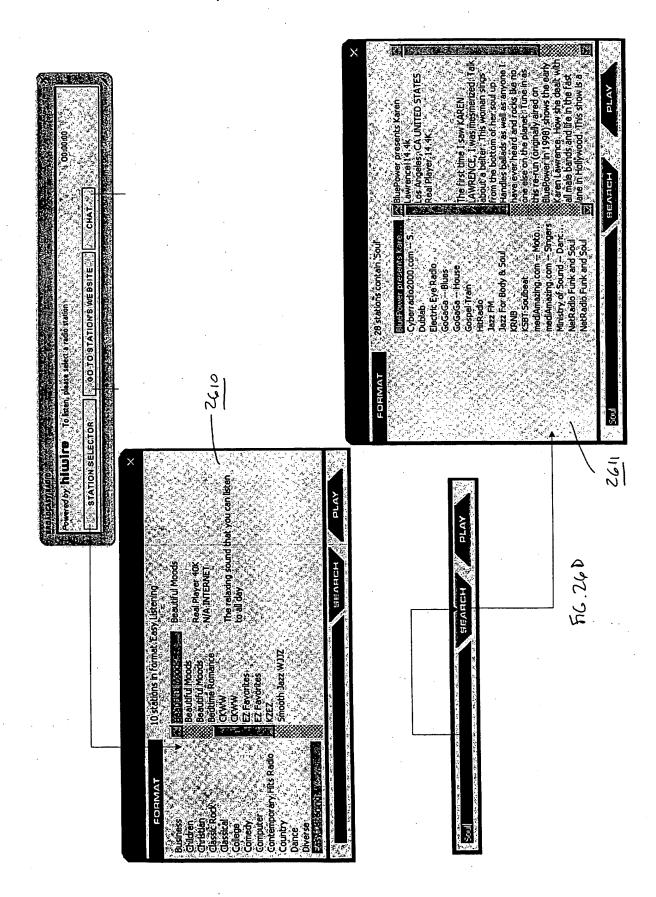
Title: Relationship Discovery Engine Inventors: Ted E. Dunning

and Bradley Kindig Atty. Docket No.: 22227-04647





Sheet 51 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647



Sheet 52 of 52 Title: Relationship Discovery Engine Inventors: Ted E. Dunning and Bradley Kindig Atty. Docket No.: 22227-04647

A, Peirmay B, Peinmay B, SECONDANY A, SECONDANY	(2705 (2706) 2706 (2706)	A, PRIMARY B, PRIMARY A, SECONDANS	A, cow asperty 18, cow asperty 14, 4164 aspert
Downloat	tury FG. 27A	Downer	